SAMSUNG

COLOR TELEVISION

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PICTURE IN PICTURE
TELETEXT
WISE LINK (OPTION)

VIRTUAL DOLBY SURROUND

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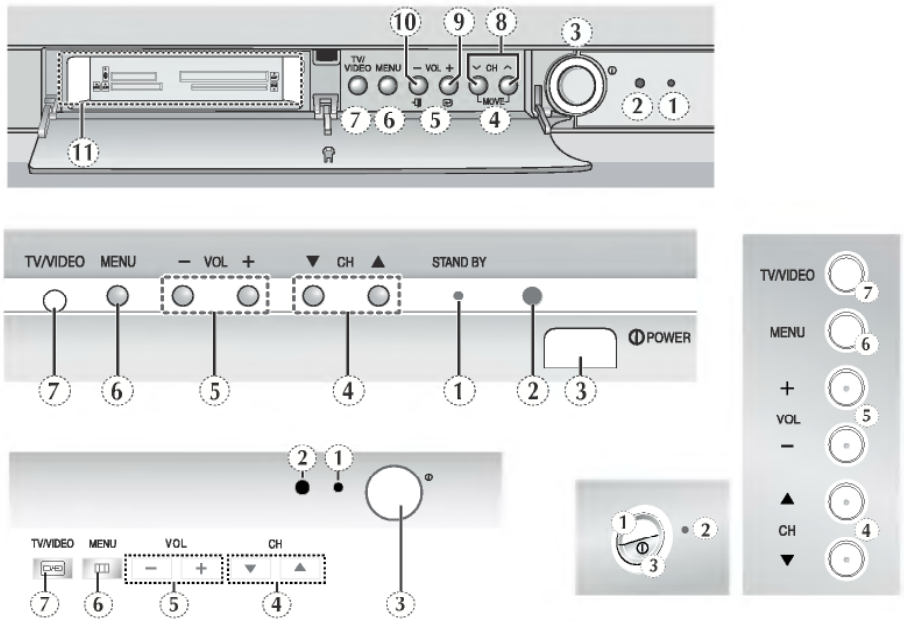
Symbols

Press Important Note

View of Your Television (depending on the model)

➢ The actual configuration on your TV may be different, depending on your model.

Control Panels



1) **Standby Indicator**
2) **Remote Control Sensor**
3) **Power On/Off**
4) **Channel Selection**
5) **Volume Adjustment**
6) **Menu Display**
7) **Input Source Selection**

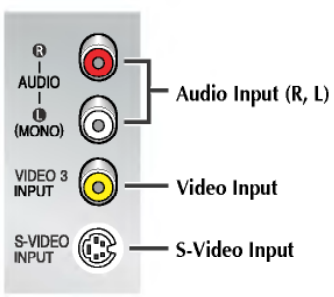
W.LINK Mode

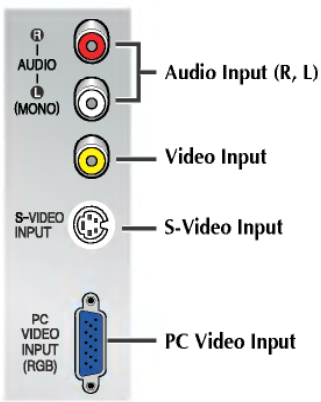
8) **MOVE :** Used to move between items.
9) **:** Used to execute the selected item.
10) **:** Used to move to the previous page.
11) **Memory Card Slot :** Insert the memory card into the slot.

☛ You can use the Volume button on the remote control to control the volume while in Wise Link mode. (You cannot control the volume on the front control panel of TV.)

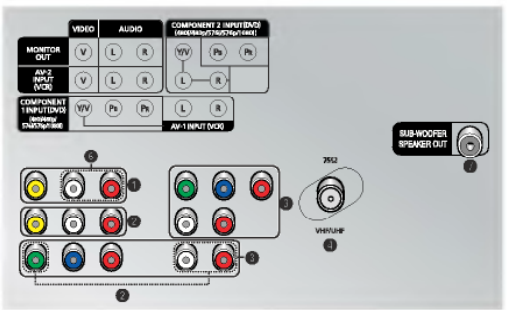
Connection Panels

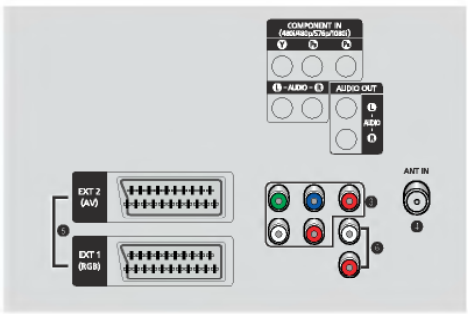
Side of the TV (depending on the model)





Rear of the TV (depending on the model)





❶ **MONITOR OUT (VIDEO / L-AUDIO-R)**
Outputs for external devices.

❷ **AV-1 INPUT (VCR) -VIDEO/AUDIO(L/R)**
AV 2 INPUT(VCR) -VIDEO/AUDIO(L/R)
Inputs or outputs for external devices, such as VCR, DVD, video game device, or video disc players.

❸ **COMPONENT 1 INPUT (DVD)/**
COMPONENT 2 INPUT (DVD)
VIDEO (**Y**/P_B/P_R) and AUDIO (**L**/**R**) inputs for Component.

➢ Available format for Component inputs ; 480i, 480p, 576i, 576p, 1080i - 50Hz

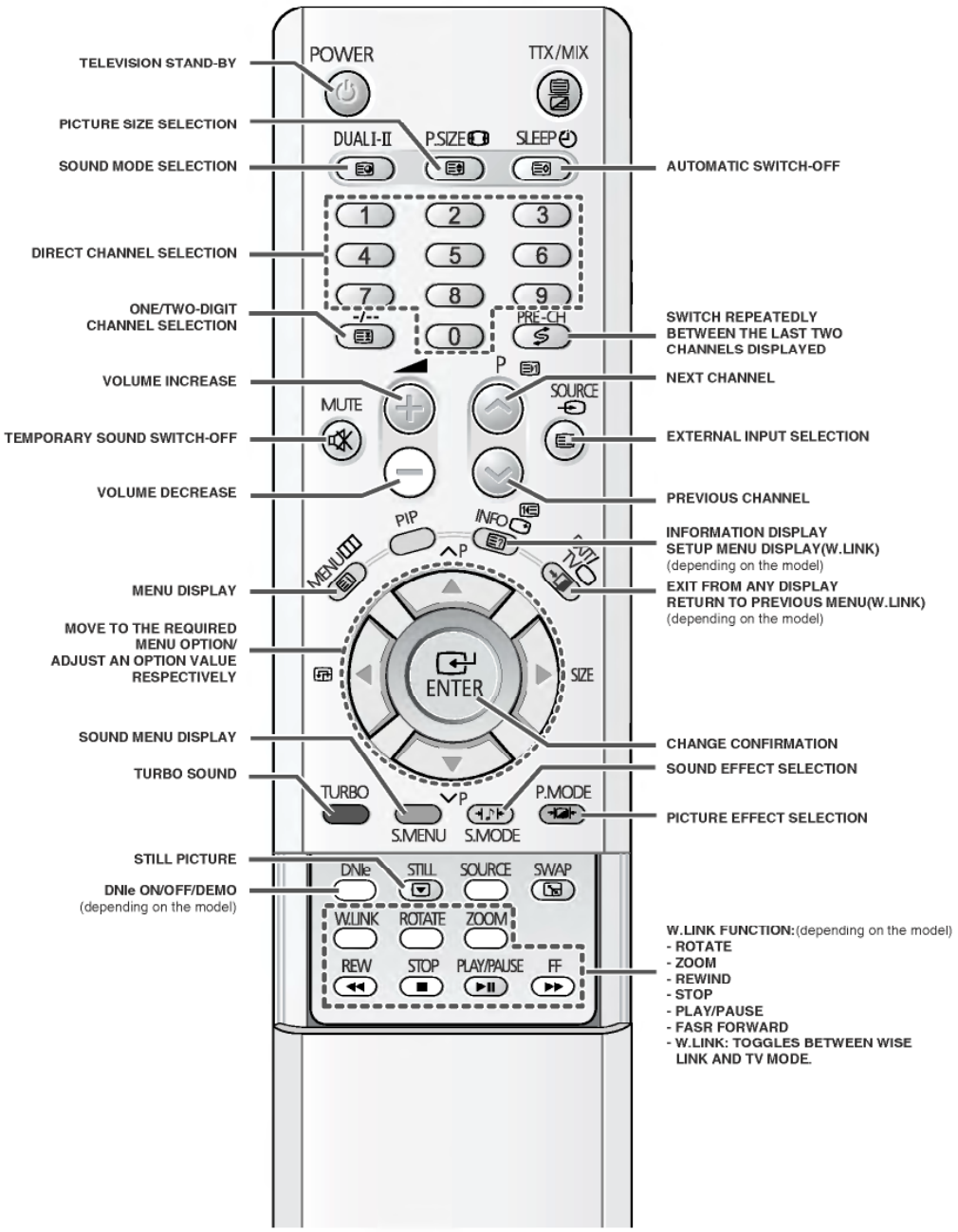
❹ **VHF/UHF (75Ω)**
75Ω Coaxial connector for Aerial/Cable Network.

❺ **SCART- EXT 1(RGB)/EXT 2(AV)**
Inputs or outputs for external devices, such as VCR, DVD, video game device, or video disc players.

❻ **MONITOR AUDIO OUT**
Audio Output for external devices.

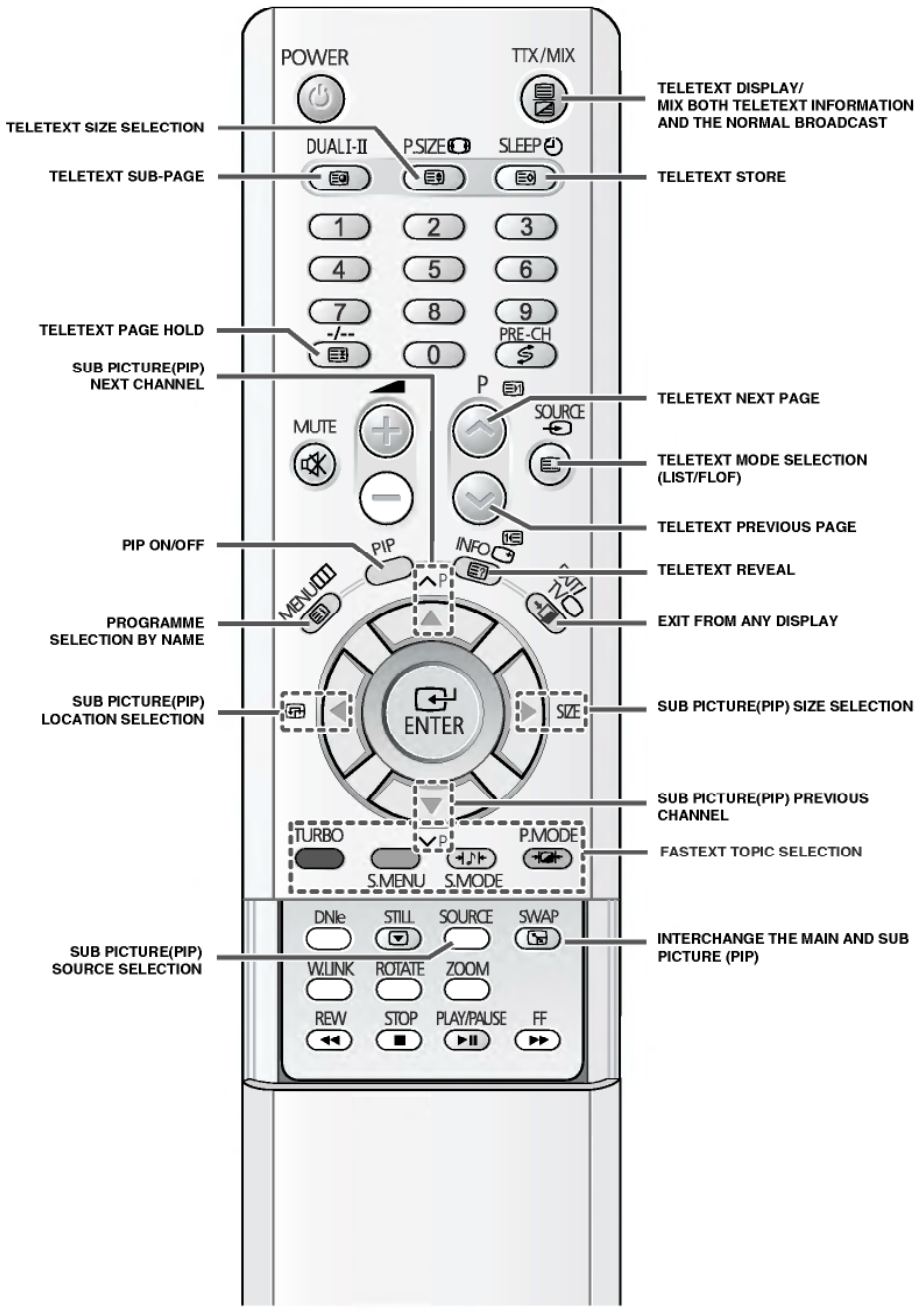
❼ **SUB-WOOFER SPEAKER OUT**
Connect for active subwoofer speaker.

Infrared Remote Control (depending on the model)



➢ *The performance of the remote control may be affected by bright light.*

Infrared Remote Control (depending on the model) (continued)



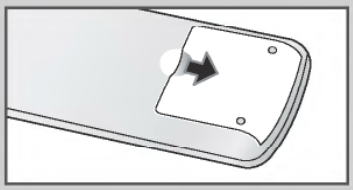
Inserting the Batteries in the Remote Control

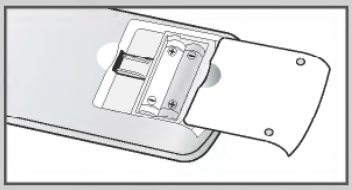
You must insert or replace the batteries in the remote control when you:

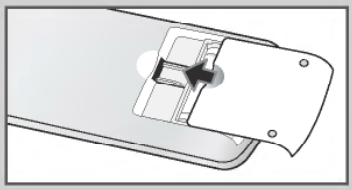
- *Purchase the television*
- *Find that the remote control is no longer operating correctly*

1	Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards, then pulling firmly to remove it.
2	Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities: ◆ – on the battery against – on the remote control ◆ + on the battery against + on the remote control
3	Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➢ Do not mix battery types, i.e. alkaline and manganese.





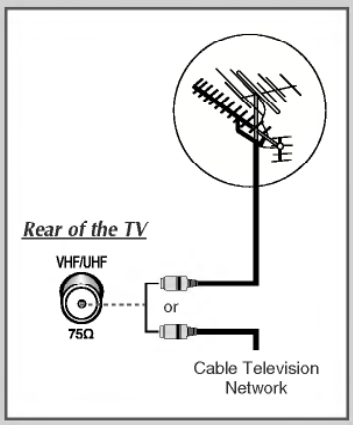


Connecting to an Aerial or Cable Television Network

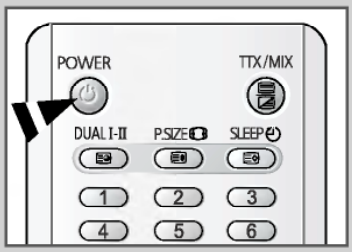
To view television channels correctly, a signal must be received by the set from one of the following sources:

- *An outdoor aerial*
- *A cable television network*
- *A satellite network*

1	In the first three cases, connect the aerial or network input cable to the 75Ω coaxial socket on the rear of the television.
2	If you are using an indoor aerial, you may need to turn it when tuning your television until you obtain a picture that is both sharp and clear. For further details, refer to: ◆ "Storing Channels Automatically " on page 14 ◆ "Storing Channels Manually" on page 16



Switching Your Television On and Off



The mains lead is attached to the rear of your television.

1 Plug the mains lead into an appropriate socket.

➢ The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.

2 Press the "⏻" button (On/Off) on the front of the television.

Result: The Standby indicator on the front of the television lights up.

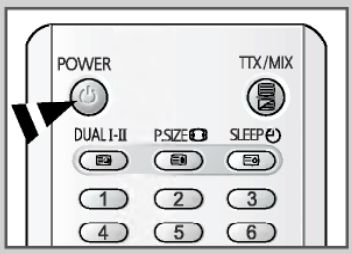
3 Press the **POWER** (⏻) button on the remote control to switch the television on.

Result: The programme that you were watching last is re-selected automatically.

➢ If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 14 or "Storing Channels Manually" on page 16.

4 To switch your television off, press the "⏻" button (On/Off) again.

Placing Your Television in Standby Mode



Your television can be placed in Standby mode, in order to reduce:

- ***Power consumption***
- ***Wear of the cathode ray tube***

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1 Press the **POWER** (⏻) button on the remote control.

Result: The screen is turned off and the Standby indicator on the front of the television lights up in red.

2 To switch the television back on, simply press the **POWER** (⏻) button again.

➢ You can also switch on by pressing the **P** ∧ or ∨ button.

☛ Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the "⏻" button (On/Off) on the front of the television. It is best to unplug the set from the mains and aerial.

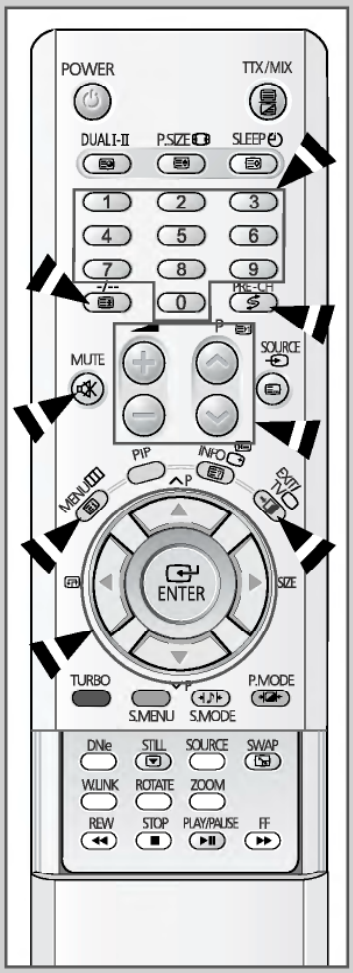
Becoming Familiar with the Remote Control

The remote control is used mainly to:

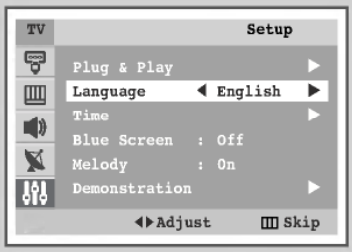
- *Change channels and adjust the volume*
- *Set up the television using the on-screen menu system*

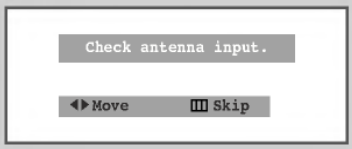
The following table presents the most frequently used buttons and their functions.

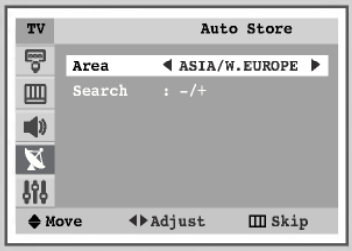
Button	Viewing Function	Menu Function
∧	Used to display the next stored channel.	–
∨	Used to display the previous stored channel.	–
0 to 9	Used to display the corresponding channels.	
-/--	Used to select a channel numbered ten or over. Press this button, and the "--" symbol is displayed. Enter the two-digit channel number.	
PRE-CH	Press the **PRE-CH** button. The TV will switch to the last channel viewed. To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select second channel. Then, use the **PRE-CH** button to quickly alternate between them.	
+	Used to increase the volume.	–
−	Used to decrease the volume.	–
MUTE	Used to switch the sound off temporarily. ➢ To turn the sound back on, press this button again, or press the + or − button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
∧ ∨ ◀ ▶	–	Used to: ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
ENTER	–	Used to confirm your choice.
EXIT	–	Used to exit from the menu system and return to normal viewing directly.
TV	Used to switch the television on when it is in Standby mode.	Used to exit from the menu system and return to normal viewing directly

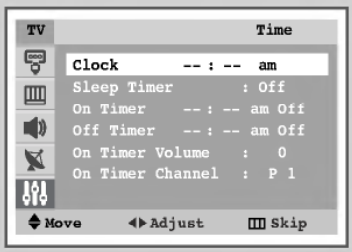


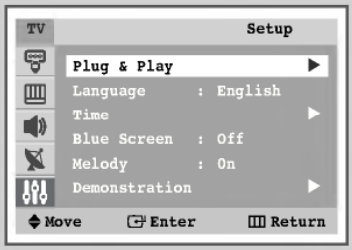
Plug & Play Feature











When the television is initially powered on, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

1 If the television is in Standby mode, press the **POWER** (⏻) button on the remote control.

Result: The message **Plug & Play** is displayed. It flickers for a little while, then **Language** menu is automatically displayed.

2 Select the appropriate language by pressing the ◀ or ▶ button. Press the **MENU** (☰) button to enter the language.

Result: The message **Check antenna input.** is displayed.

➢ If any language is not selected on the **Language** menu, the **Language** menu will disappear about 30 seconds later.

3 Make sure that the antenna is connected to the TV. Press the ◀ or ▶ button.

Result: The **Auto Store** menu is displayed with **Area** is selected.

4 Select your country by pressing the ◀ or ▶ button. To search the channels, select **Search** by pressing the ▲ or ▼ button, then press the ◀ or ▶ button. Press the **MENU** (☰) button to stop the search.

Result: The **Time** menu is displayed with **Clock** is selected.

➢ Refer to "Storing Channels Automatically" on page 14.

5 Press the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.

➢ Refer to "Setting and Displaying the Current Time" on page 31.

6 When you have finished, press the **MENU** (☰) button.

Result: The message **Enjoy your watching.** is displayed, then the channel which has been stored will be activated.

7 **If you want to reset this feature...**

1. Press the **MENU** (☰) button.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** (↵) button.

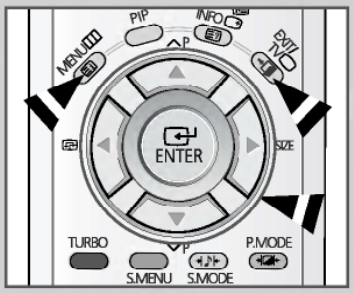
   Result: The **Plug & Play** is selected.
3. Press the **ENTER** (↵) button again.

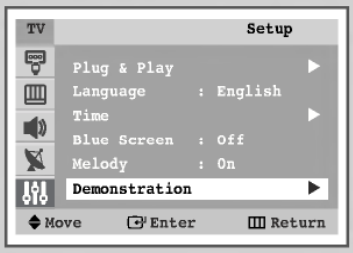
   Result: This feature starts with the message **Plug & Play** is displayed.

➢ When you wish to exit from the Plug & Play, press the **EXIT** (⏏) button on the remote control.

Viewing the Demonstration

To become familiar with the various menus provided by your television, you can view the inbuilt demonstration.

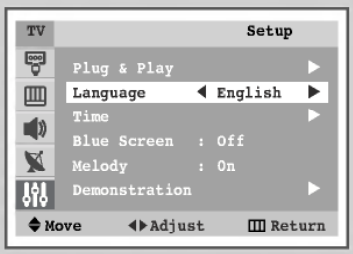




1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The options available in the **Setup** group are displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Demonstration**.
5. Press the **ENTER** (↵) button.
   Result: Each of the menu options is displayed in turn.
   ➢ When you wish to exit from the demonstration, press the **EXIT** (→▯) button on the remote control.

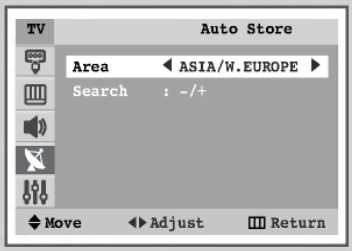
Choosing Your Language

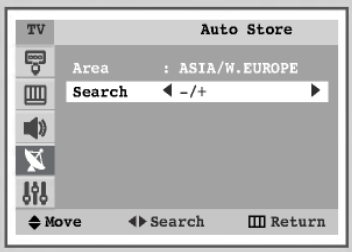
When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

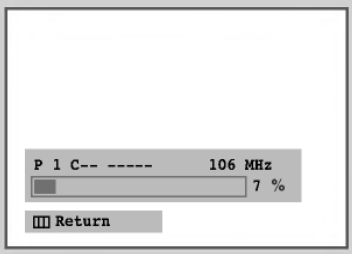


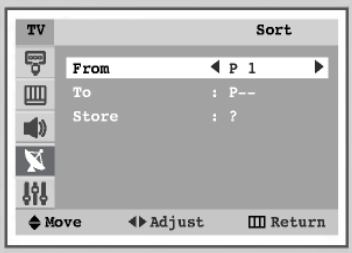
1. Press the **MENU** (▥) button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Setup**.
   Result: The options available in the **Setup** group are displayed.
3. Press the **ENTER** (↵) button.
4. Press the ▲ or ▼ button to select **Language**.
5. Select the appropriate language by pressing the ◄ or ► button repeatedly.

Storing Channels Automatically









You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

Result: The **Auto Store** is selected.

4 Press the **ENTER** (↵) button again.

Result: The options available in the **Auto Store** group are displayed with **Area** is selected.

5 Select your area by pressing the ◀ or ▶ button. The countries are displayed in the following order:
ASIA/W.EUROPE - CIS/E.EUROPE - CHINA - HONGKONG/UK - AUSTRALIA - NZL/INDONESIA - SOUTH AFRICA - AMERICA

6 Press the ▲ or ▼ button to select **Search**.

7 Press the ◀ or ▶ button to start the search.

Result: The horizontal bar is displayed, then channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically.

➢ To stop the search before it has finished, press the **MENU** (▥) button.

8 When searching and storing are complete, the **Sort** menu is displayed.

- To sort the stored channels into the desired numerical order, go to Step **6** of the "Sorting the Stored Channels" procedure on page 15.
- To exit from the channel store function without sorting the channels, press the **MENU** (▥) button repeatedly until the menus disappear.

9 When the channels have been stored, you can:

- Sort them in the order required (refer to page 15)
- Clear a channel (refer to page 18)
- Assign a name to the stored channels (refer to page 19)
- Fine tune channel reception if necessary (refer to page 20)
- Activate the Digital Noise Reduction feature (refer to page 24)

Sorting the Stored Channels

This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store. You can delete the channels you do not want to keep.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Sort**.

5 Press the **ENTER** (↵) button.

Result: The options available in the **Sort** group are displayed with **From** is selected.

6 Select the channel number that you wish to change by pressing the ◀ or ▶ button repeatedly.

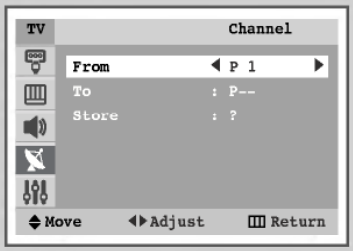
7 Press the ▲ or ▼ button to select **To**. Select the new channel number which you wish to identify by pressing the ◀ or ▶ button repeatedly.

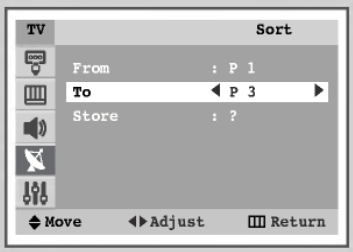
➢ You can also select the channel number directly by pressing the numeric buttons (0~9).

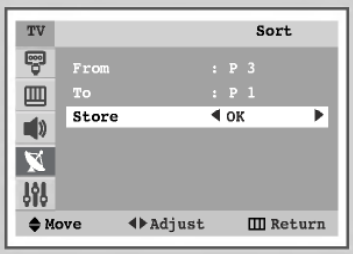
8 Press the ▲ or ▼ button to select **Store**. Select **OK** to confirm the exchange of channel numbers by pressing the ◀ or ▶ button.

Result: The selected channel is exchanged with the one previously stored to the chosen number.

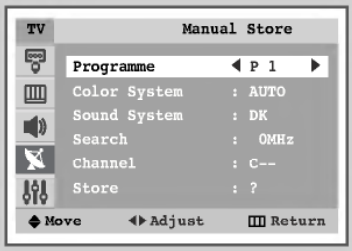
9 For all the channels to move to the required channel numbers, repeat steps **6** to **8** after selecting the **From** by pressing the ▲ or ▼ button.

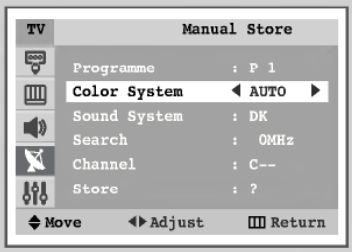


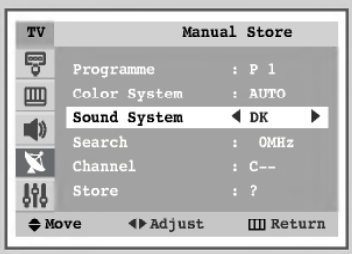




Storing Channels Manually







You can store up to 100 television channels, including those received via cable networks.

When storing channels manually, you can choose:

- *Whether or not to store each of the channels found*
- *The programme number of each stored channel which you wish to identify*

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Manual Store**.

5 Press the **ENTER** (↵) button.

Result: The options available in the **Manual Store** group are displayed with **Programme** is selected.

6 To assign a programme number to a channel, press the ◀ or ▶ button.

7 Press the ▲ or ▼ button to select **Color System**. Indicate the broadcasting standard required by pressing the ◀ or ▶ button repeatedly.

Result: The color standards are displayed in the following order:
AUTO - PAL - SECAM - NT4.43 - NT3.58

8 Press the ▲ or ▼ button to select **Sound System**. Select the sound standard required by pressing the ◀ or ▶ button repeatedly.

Result: The sound standards are displayed in the following order:
BG - DK - I - M

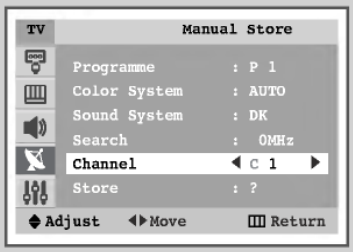
Storing Channels Manually (continued)

9 If you know the number of the channel to be stored, see the following steps.

- Press the ▲ or ▼ button to select **Channel**.
- Press the ▶ button.
- Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
- Press the ▶ button.
- Press the ▲ or ▼ button to select indicate the required number.

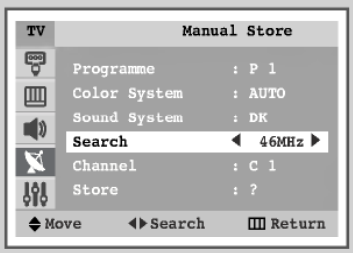
  ➢ You can also select the channel number directly by pressing the numeric buttons (0~9).

➢ If no sound or abnormal sound, re-select the sound standard required.

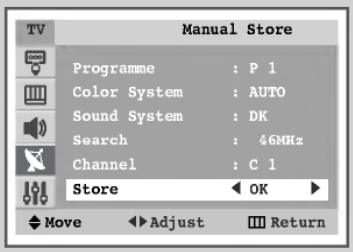


10 If you do not know the channel numbers, select **Search** by pressing the ▲ or ▼ button. Press the ◀ or ▶ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.



11 To store the channel and associated programme number, select **Store** by pressing the ▲ or ▼ button. Press the ◀ or ▶ button to select **OK**.

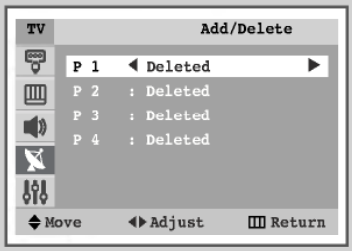


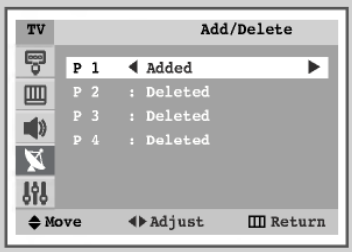
12 Repeat Steps **9** to **11** for each channel to be stored.

☛ ***Channel mode***

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to max P99. You can select a channel by entering the position number in this mode.
- **C** (Real channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels





You can exclude the channels you chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

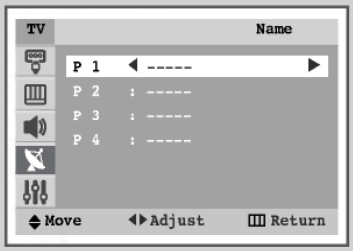
All of the channels that you do not specifically choose to skip are displayed during scanning.

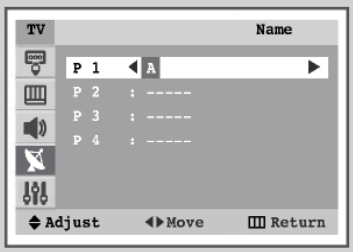
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Channel**. Result: The options available in the **Channel** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Add/Delete**.
5	Press the **ENTER** (↵) button. Result: The stored channels are displayed.
6	Press the ▲ or ▼ button to select the channel to add or erase. If necessary, select **Added** or **Deleted** by pressing the ◀ or ▶ button.
7	Repeat Step **6** for each channel to be added or erased.

Assigning Names to Channels

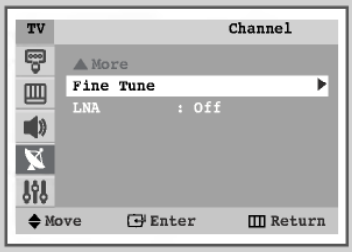
Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

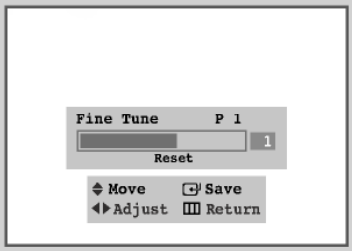
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Channel**. Result: The options available in the **Channel** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Name**.
5	Press the **ENTER** (↵) button. Result: The current channels are displayed.
6	If necessary, select the channel to be assigned to a new name by pressing the ▲ or ▼ button.
7	Press the **ENTER** (↵) button.
8	Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9) or a symbol (-, space). Move on the previous or next letter by pressing the ◀ or ▶ button.
9	Repeat Steps **6** to **8** for each channel to be assigned to a new name.





Fine Tuning Channel Reception





If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Fine Tune**.

5 Press the **ENTER** (↵) button.

6 To obtain a sharp and clear picture and good sound quality, press the ◀ or ▶ button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

7 To store the fine tuning setting in the TV's memory, press the **ENTER** (↵) button.

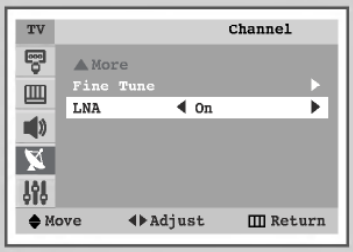
Result: Channel indicator turns into Red.

8 To erase adjusted picture or sound, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: Channel indicator returns to its original color.

Using the LNA (Low Noise Amplifier) feature (depending on the model)

This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise. This feature is working only weak signal condition, and that is memorized on current channel, additional.

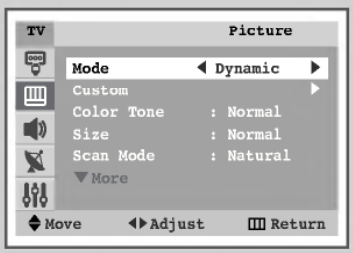


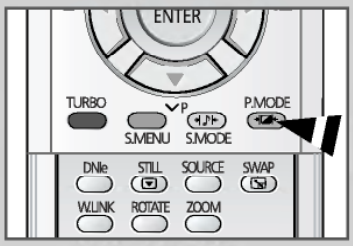
1	Press the **MENU** (☰) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Channel**. Result: The options available in the **Channel** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **LNA**.
5	To activate this feature, select **On** by pressing the ◀ or ▶ button.

➢ Setting the LNA option to "**On**" may produce worse picture quality due to the current channel's signal condition. Hence, apply LNA On/Off selectively according to the picture quality that is currently displayed.

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

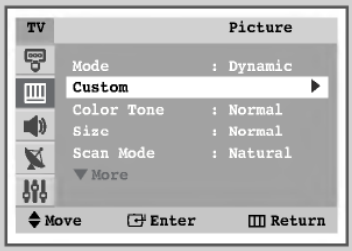


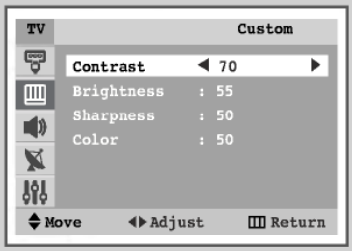


1	Press the **MENU** (☰) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The options available in the **Picture** group are displayed.
3	Press the **ENTER** (↵) button. Result: The **Mode** is selected.
4	Select the required picture effect by pressing the ◀ or ▶ button repeatedly. Result: The following picture effects are available: **Dynamic – Standard – Movie – Custom**

➢ You can also set these options simply by pressing the **P.MODE**(; Picture Mode) button.

Adjusting the Picture Settings (depending on the model)





Your television has several settings which allow you to control picture quality.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Custom**.

5 Press the **ENTER** (↵) button.

Result: The options available in the **Custom** group are displayed.

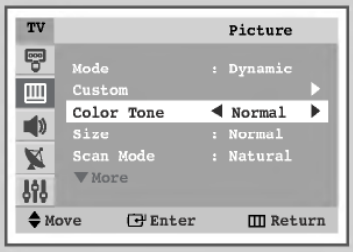
6 Press the ▲ or ▼ button to select the option (**Contrast**, **Brightness**, **Sharpness**, **Color** or **Tint**-NTSC only) to be adjusted. Press the ◀ or ▶ button.

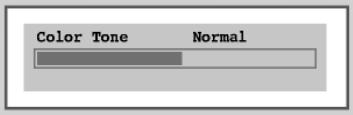
Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

➢
- If you make any changes to these settings, the picture standard is automatically switched to **Custom**.
- The television has an "automatic degaussing" system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the "⏻" (On/Off) button on the front panel. (Refer to "Automatic Degaussing to Remove Color Patches" on page 56.)

Selecting the Color Tone

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The options available in the **Picture** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Color Tone**.
5	Press the **ENTER** (↵) button. Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button. (**Warm 1 ~ Warm 10 - Normal - Cool 1 ~ Cool 10**)





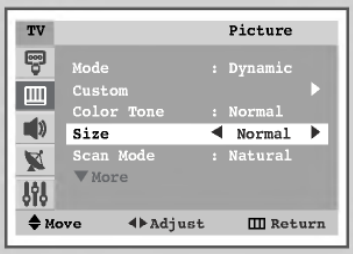
Selecting the Picture Size (depending on the model)

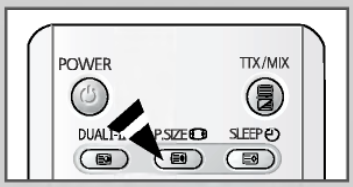
You can select the picture size which best corresponds to your viewing requirements simply by pressing the "P.SIZE (▭)" button. Depending on the model, the following picture sizes are available:

- **Normal**, **Zoom1**, **Zoom2**, **16:9**
- **Wide**, **Panorama**, **Zoom1**, **Zoom2**, **4:3**

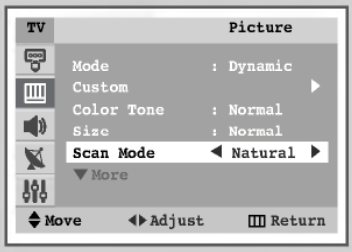
➢ Lifting is available in the **Zoom1** or **Zoom2** mode by pressing the ▲ or ▼ button.

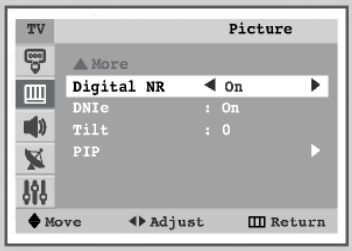
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The options available in the **Picture** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Size**.
5	Press the ◀ or ▶ button to select the picture size.

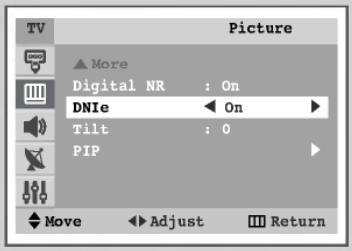


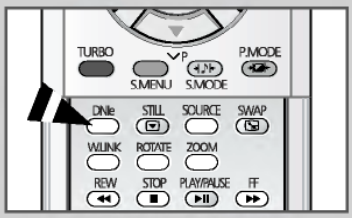


Extra Picture Settings (depending on the model)









◆ *Scan Mode*

You will normally find that scan mode is best set to **Natural** to reduce any slight picture flicker. However, it is possible that some occasional broadcasts (NTSC-M) may benefit by changing the scan mode. **Natural**, **Digital**, and **Progressive** modes are available.

◆ *Digital NR*

If the signal received by your television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

◆ *DNIe* (Digital Natural Image engine DNIe™)

This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, much detailed image to you. DNIe™ technology will fit every signals into your eyes.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Select the required option (**Scan Mode**, **Digital NR**, or **DNIe**) by pressing the ▲ or ▼ button.

5 Press the ◀ or ▶ button to change the setting.

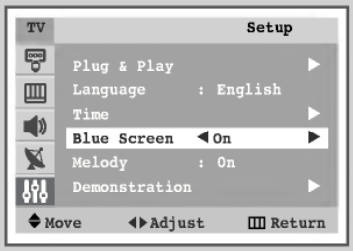
- **Scan Mode : Natural**, **Digital**, or **Progressive**
- **Digital NR : Off** or **On** (activating)
- **DNIe : Off**, **Demo**, or **On** (activating)

➢ You can also set these options simply by pressing the **DNIe** button.

Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

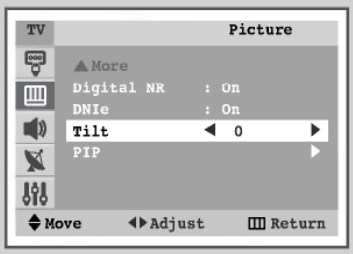
If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Blue Screen**.
5	To activate this feature, select **On** by pressing the ◄ or ► button.

Using the Tilt Control Feature

If you find that the picture received is slightly tilted to one side, you can adjust the tilt setting.



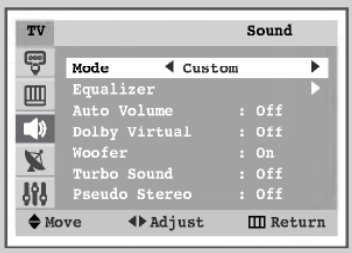
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The options available in the **Picture** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Tilt**.
5	Press the ◄ or ► button to reach the required setting (**-7** to **+7**).

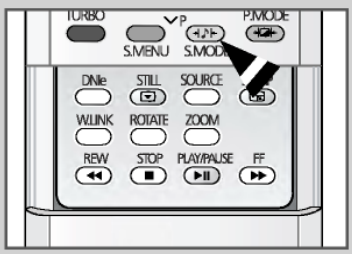
Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "STILL (▣)" button.

➢ To return to normal viewing, press this button again.

Changing the Sound Standard





You can select the type of special sound effect to be used when watching a given broadcast.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

Result: The **Mode** is selected.

4 Select the required sound effect by pressing the ◀ or ▶ button repeatedly.

Result: The following sound effects are available:

Standard - Music - Movie - Speech(SVE) - Custom

- **SVE : S**AMSUNG **V**oice **E**nhancement Technic

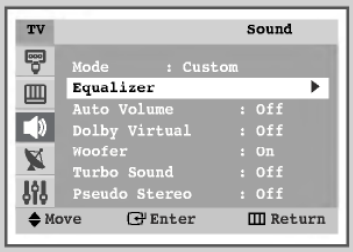
➢ You can also set these options simply by pressing the **S.MODE**(♩♪♫; Sound Mode) button.

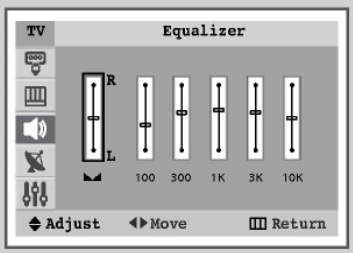
Adjusting the Sound Settings

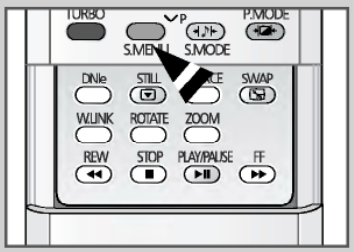
The sound settings can be adjusted to suit your personal preferences.

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Sound**. Result: The options available in the **Sound** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Equalizer**.
5	Press the **ENTER** (↵) button. Result: The options available in the **Equalizer** group are displayed. ➢ You can also display this group simply by pressing the **S.MENU** (Sound Menu) button.
6	Select the option to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.

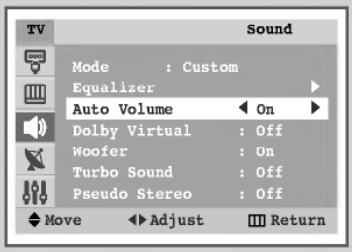
➢ If you make any changes to these settings, the sound standard is automatically switched to **Custom**.

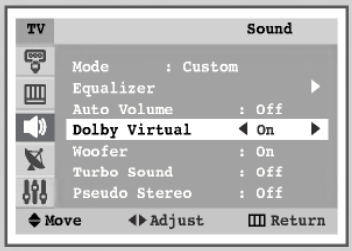


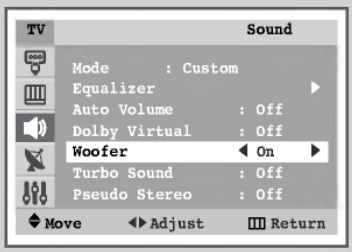


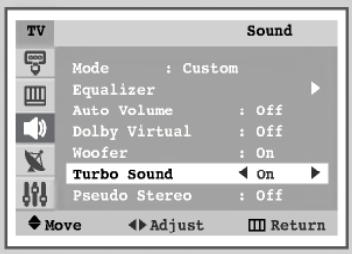


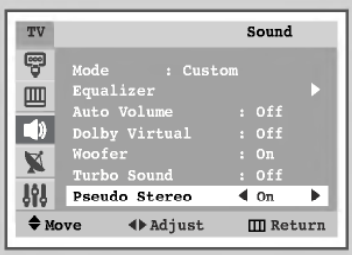
Extra Sound Settings (depending on the model)











◆ *Auto Volume*

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

◆ *Woofer*

When the woofer speaker is mounted to the TV, you can hear the bass sound-effect (if not mounted, the volume is much lower). Remove the packing materials between the woofer speaker and TV. Attach the woofer speaker ribs in the holes on the top of the TV. Connect the woofer speaker jacks to the TV rear panel inputs and follow the below.

◆ *Turbo Sound*

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects).

You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.

◆ *Pseudo Stereo / Dolby Virtual*

Pseudo Stereo feature converts a monaural sound signal into two identical left and right channels.

Once the **Pseudo Stereo** or **Dolby Virtual** is set to **On** or **Off**, these settings apply to the sound effects such as **Standard**, **Music**, **Movie**, and **Speech(SVE)**.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

4 Select the required option (**Auto Volume**, **Dolby Virtual**, **Woofer**, **Turbo Sound**, or **Pseudo Stereo**) by pressing the ▲ or ▼ button.

➢ You can select the turbo sound feature simply by pressing the **TURBO** button.

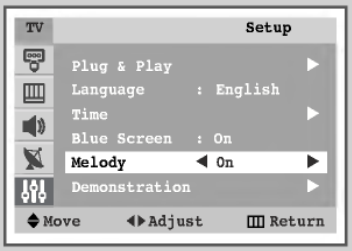
5 To activate each feature, select **On** by pressing the ◀ or ▶ button.

➢ When you use headphones, first turn off the woofer.

➢ Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

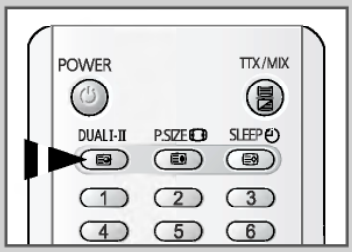
Selecting the Melody

The sound settings can be adjusted to suit your personal preferences.



1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Melody**.
5	To activate this feature, select **On** by pressing the ◀ or ▶ button.

Selecting the Sound Mode (depending on the model)



The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I " or "STEREO", depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**MONO** (Normal use)
	Regular + NICAM Mono	**MONO** ↔ **MONO** **NICAM** (Normal)
	NICAM Stereo	**STEREO** ↔ **MONO** **NICAM** (Normal)
	NICAM Dual-I/II	**DUAL-I** → **DUAL-II** → **MONO** **NICAM** **NICAM** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**MONO** (Normal use)
	Bilingual or Dual-I/II	**DUAL-I** ↔ **DUAL-II**
	Stereo	**STEREO** ↔ **MONO** (Forced mono)

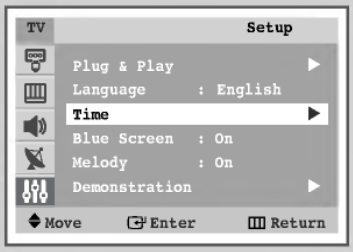
- If the receiving conditions deteriorate, listening will be easier if the mode is set to the **MONO**.
- If the stereo signal is weak and an automatic switching occurs, then switch to the **MONO**.
- When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the panel (front or side). If the mono sound comes out only from left speaker, press the **DUAL I-II** button.

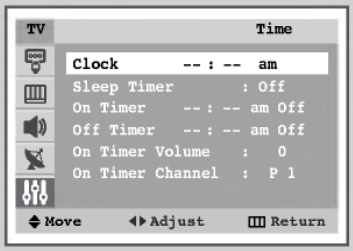
Setting and Displaying the Current Time

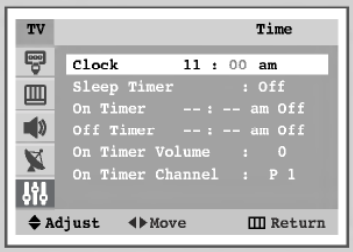
You can set the television's clock so that the current time is displayed by pressing the "INFO ( )" button. You must also set the time if you wish to use the automatic on or off timers.

➢ When pressing the "⏻" button (On/Off) on the front of the television, the clock setting will be reset.

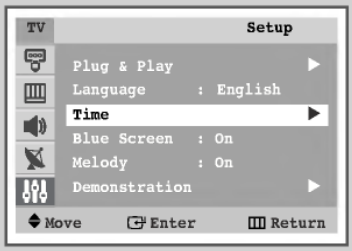
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Time**.
5	Press the **ENTER** (↵) button. Result: The **Clock** is selected.
6	Press the ◄ or ► button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.
7	When you have finished, press the **EXIT** (→▯) button to exit.
8	Press the **INFO** ( ) button to display the channel information and the current time.

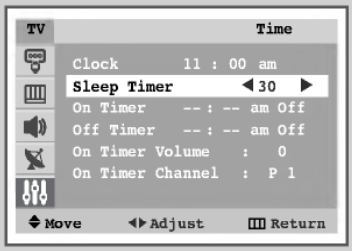


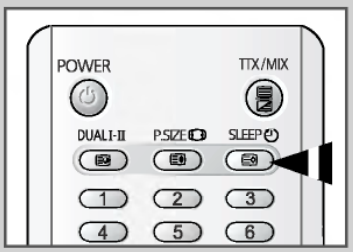




Setting the Sleep Timer







You can set your TV to automatically turn off after a preset interval.

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Time**.
5	Press the **ENTER** (↵) button. Result: The **Clock** is selected.
6	Press the ▲ or ▼ button to select **Sleep Timer**.
7	Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) for staying on by pressing the ◀ or ▶ button.

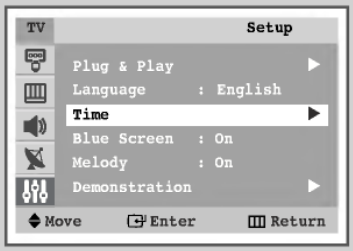
➢ You can select a time period of between 30 and 180 minutes after the television automatically switches to Standby mode by pressing the **SLEEP** (⏲) button.

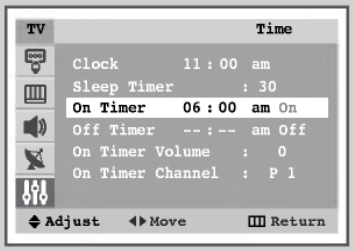
Switching the Television On and Off Automatically

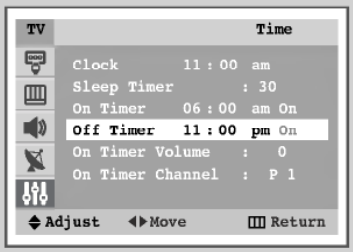
You can set the On/Off timers so that the television will:

- ***Switch on automatically and tune to the channel of your choice at the time you select***
- ***Switch off automatically at the time you select***

➢ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the page 31). If you have not yet set the clock, the message **Set the clock first** is displayed.





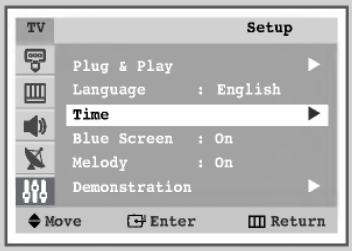


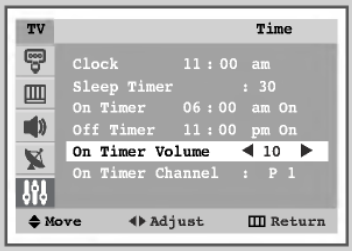
1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Time**.
5	Press the **ENTER** (↵) button. Result: The **Clock** is selected.
6	Press the ▲ or ▼ button to select **On Timer**. Set the time at which you wish the television to be switched on automatically. ◆ Press the ◄ or ► button to move to the hour or minute. Set these by pressing the ▲ or ▼ button. ◆ Press the ◄ or ► button to move **Off**, then press the ▲ or ▼ button to select **On**.
7	Press the ▲ or ▼ button to select **Off Timer**. In the same above, set the time at which you wish the television to be switched off automatically.

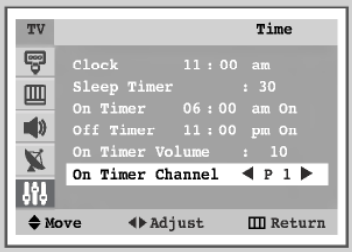
➢ **Absent Power Off**

When you set the timer "**On**", your television will eventually be turned off, if you do not operate any controls during the 3 hours after the TV is turned on by timer. This function is available in only the timer "**On**" mode and will prevent a leakage accident or overheating, caused by your TV left on for a long time due to the timer "**On**" (when you are away on holiday, for example).

Setting the Preferred Volume Level/Channel







The preferred volume and channel can be set for when the timer automatically turns on the TV.

1	Press the **MENU** (▥) button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**. Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Time**
5	Press the **ENTER** (↵) button. Result: The **Clock** is selected.
6	Press the ▲ or ▼ button to select **On Timer Volume**.
7	Press the ◀ or ▶ button to adjust volume level.
8	Press the ▲ or ▼ button to select **On Timer Channel**.
9	Press the ◀ or ▶ button to select the channel.

Viewing an External Signal Source/Edit Name (depending on the model)

Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top-boxes and the TV source (broadcast or cable)

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the **ENTER** (↵) button to select **Input**.

Result: The options available in the **Input** group are displayed.

3 Press the **ENTER** (↵) button again to select **Source List**.

Result: The options available in the **Source List** group are displayed.

4 Press the ▲ or ▼ button to select signal source, then press the **ENTER** (↵) button.

➢ When you connect equipment to the TV, you can choose between the following sets of jacks : **AV-1**(or **EXT 1(RGB)**), **AV-2**(or **EXT 2(AV)**), **Component1**, **Component2**, or **PC** (depending on the model) on the TV's rear panel, and **AV3/S-Video** on the TV's side panel.

➢ You can also set these options simply by pressing the **SOURCE** (⇥) button. If you change the external source while viewing, pictures might take a short period of time to be switched.

Edit Name

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the **ENTER** (↵) button to select **Input**.

Result: The options available in the **Input** group are displayed.

3 Press the ▲ or ▼ button to select **Edit Name**. Press the **ENTER** (↵) button.

Result: The options available in the **Edit Name** group are displayed.

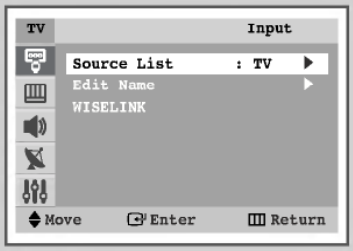
4 Press the ▲ or ▼ button to select external device : **AV1 – AV2 – AV3 – S-Video – Component1 – Component2 – PC**

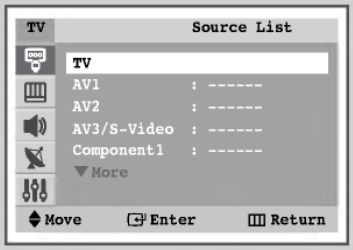
◆ **PC** : When the **PC** is connected, it is selected. (depending on the model)

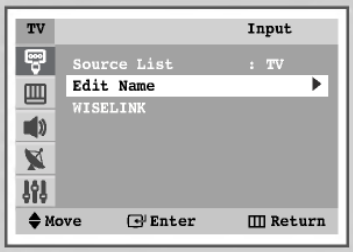
5 Press the **ENTER** (↵) button.

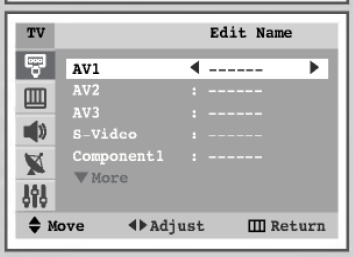
6 Select the name by pressing the ◄ or ► button.

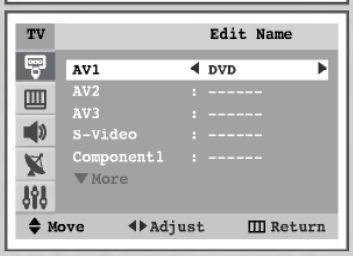
7 Set other signal sources (**AV1**, **AV2**, **AV3**, **S-Video**, **Component1**, **Component2**, **PC** (depending on the model)) using the same method as listed above.



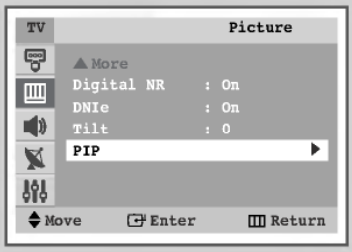


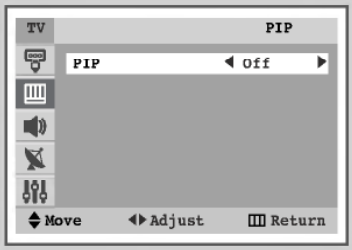


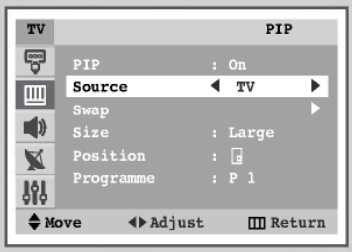


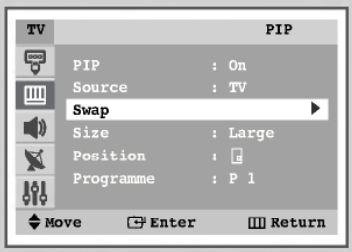


Viewing the Picture In Picture (PIP) (depending on the model)









You can display a sub picture within the main picture of TV program or external A/V devices such as VCR or DVD. In this way you can watch TV program or monitor the video input from any connected devices while watching TV or other video input.

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **PIP**. Press the **ENTER** (↵) button.

5 Press the ◄ or ► button to **On**.

Result: The options available in the **PIP** group are displayed.

➢ You can also activate the PIP simply by pressing the **PIP** button. To deactivate, press it again.

6 Press the ▲ or ▼ button to select **Source**.

7 Press the ◄ or ► button to select a source of sub picture.

Result: The sources are displayed in the following order:

TV – AV1 – AV2 – AV3/S-Video

➢ In some PIP TV models, the PIP function will not operate if the same source to the main picture is selected for the sub-picture. When a TV channel is viewed on the main picture, PIP is not available for TV channels. If a TV source is selected, the message "**Not available**" will appear on the screen. The PIP picture can be viewed only when a source different from the main picture's is selected in the PIP window.

➢ You can also set these options simply by pressing the **SOURCE** button.

8 Press the ▲ or ▼ button to select **Swap**.

9 Press the **ENTER** (↵) button.

Result: The main picture and the sub picture are interchanged.

➢ You can also interchange the main picture and the sub picture simply by pressing the **SWAP** (⧉) button.

Viewing the Picture In Picture (PIP) (depending on the model) (continued)

10 Press the ▲ or ▼ button to select **Size**.

11 Select a size of sub picture by pressing the ◄ or ► button.

Result: The sizes are displayed in the following order:

Large – Small – Double Window – 16 PIP

➢ ◆ **16 PIP :** You can view up to 16 memorized channels on the sub picture spontaneously.

◆ On the condition of **16 PIP**, it is impossible to execute **Swap** and **Position**.

➢ You can select these options simply by pressing the **SIZE** button.

12 Press the ▲ or ▼ button to select **Position**.

13 Select a position of sub picture by pressing the ◄ or ► button.

Result: The positions available are displayed.

➢ You can select these options simply by pressing the (Position) button.

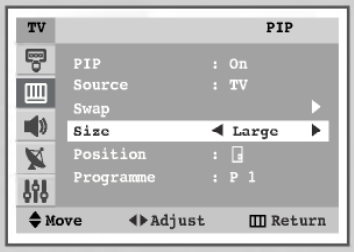
14 Press the ▼ or ▲ button to select **Programme**. You can select the channel that you want to view through sub picture by pressing the ◄ or ► button.

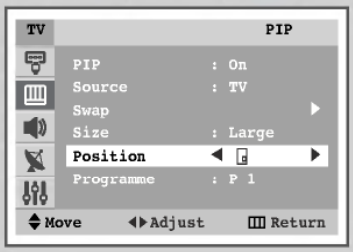
➢ ◆ When the **Source** is set to **TV**, you can select the channel of sub picture.

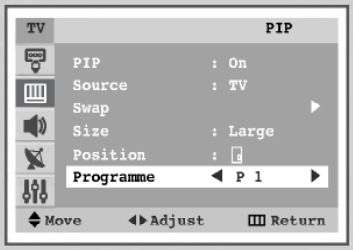
◆ You can select the channel of the sub picture simply by pressing the ▼ or ▲ button.

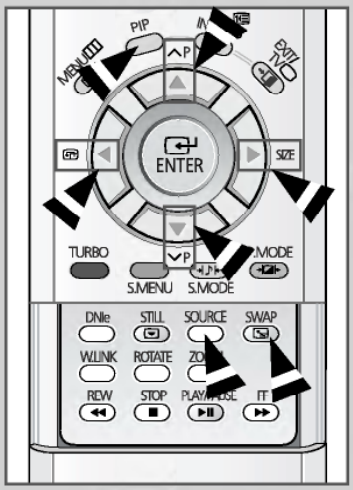
Easy functions of remote control

Buttons	Feature
PIP	Used to activate or deactivate the PIP function directly.
SWAP ( )	Used to interchange the main picture and the sub picture. ➢ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the **SWAP**( ) button after changing the sub picture channel. At this time, reselect the channel of main picture.
SOURCE	Used to assign a source of sub picture (**TV**, **AV1**, **AV2**, or **AV3/S-Video**).
SIZE	Used to select a size of sub picture (**Large**, **Small**, **Double Window**, or **16 PIP**).
(Position)	Used to move the sub picture counterclockwise.
P ∧/∨	Used to select the channel of sub picture.







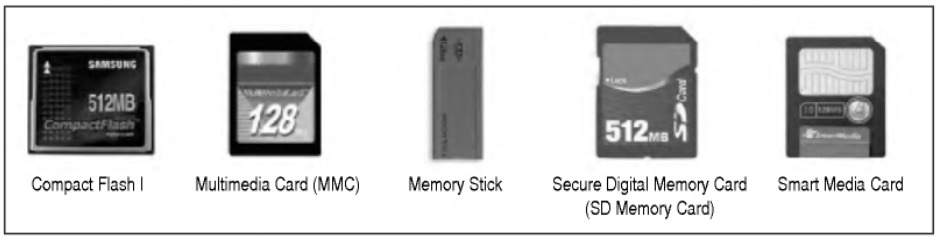


Using Wise Link (depending on the model)

Wise Link is used to play JPEG files (.jpg) and MP3 files (*.MP3) stored in the memory card on the TV.*

◆ **What is a Memory Card?**
A memory card is an auxiliary storage device used in AV equipment to exchange data between devices. It is mainly used in digital cameras, digital camcorders, MP3 players, notebooks, and PDAs.

◆ **Memory Cards Available in WISE LINK**
You can use CF (Compact Flash), SMC (Smart Media Card), SD (Secure Digital), MMC (Multi Media Card), and MS (Memory Stick) in the four WISE LINK slots. Confirm the card type and proper insertion direction before you insert a memory card. The correct card type is listed for each slot.



Compact Flash I | Multimedia Card (MMC) | Memory Stick | Secure Digital Memory Card (SD Memory Card) | Smart Media Card

➢ Memory Stick Pro and Memory Stick Duo are not supported.
There are different slot configurations for Compact Flash Type I and II. This product supports CF Type I.

➢ ◆ **How to Insert a Memory Card**
Gently push the memory card into the slot. If the card is not inserted completely, it will not work. Insert the card in the direction indicated on the memory card.

Note: Do not apply excessive force while inserting the card.

◆ **How to Eject a Memory Card**
Holding the tip of the card, gently pull it out.

◆ **Cautions on Memory Card Use**

- Data can be damaged when a memory card is used in the presence of static electricity and/or electronic noise.
- Data can be damaged when a memory card is repeatedly inserted and ejected.
- Play speed may differ depending on the card type.
- Do not attach anything but a label in the proper place.
- Be careful to attach the label only within the proper space.
- Be careful not to make contact between the memory card terminal and metal objects.
- Do not strike, bend or drop the memory card.
- Do not dismantle or tinker with the memory card.
- Be careful to keep the memory card dry.
- Do not insert any objects other than Memory Card into the Memory Card Slot.

◆ **Cautions on using WISE LINK Mode**
- Do not insert foreign objects into the slot.
- Insert the memory card in the proper direction
- Do not remove the memory card when it is in use.
- The manufacturer's responsibility does not include damaged data. (Be careful not to corrupt data and be sure to back up files.)
- Use the slot cover so that dust and foreign objects cannot enter the slot when WISE LINK is not in use.

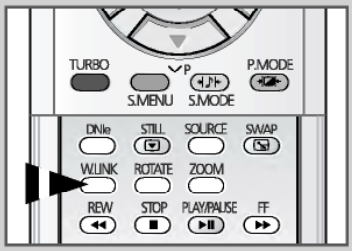
◆ **Initialization of WISE LINK Mode**

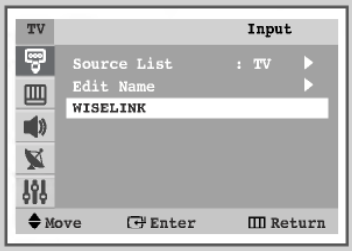
Errors can occur in WISE LINK mode because of the various memory card types, the various manufacturers and the type of data stored. When an error occurs, please initialize WISE LINK as follows:
- Press the W.LINK button on the transmitter for about 2 seconds to initialize WISE LINK. During Initialization, there will be no display for about 3 seconds.
- After pressing the W.LINK button to switch into TV mode, press the W.LINK button again to return to Wise LINK mode. Initialization is now finished.

◆ **Files supported by WISE LINK**

File Type	JPEG Image (*.jpg)	MP3 Files (*.mp3)
File Size	JPEG images are classified into standard JPEG and progressive JPEG. • Standard JPEG: Files with less than 5 million pixels. • Progressive JPEG: Files with less than 2 million pixels.	No limit to file sizes. MP3 files may not play depending on the data transfer rate. • Data Transfer Rate: Files with less than 192 Kbps will run.
Compatibility	Still Image Files with (*.jpg) Extension	Music Files with the (*.mp3) Extension
Supported Memory Card Sizes	• CF: 512MBytes • MS: 128MBytes • MMC&SD: 512MBytes • SMC: 128Mbytes An error can take place if a higher capacity memory card is used.	
Data Copying	When you use a memory card reader to copy data on your home computer, follow the normal procedures. If you do not follow the proper procedures and erroneously copy data, the data will not run in WISE LINK.	
Formatting the Memory Card	If you format the memory card on your computer, an error can occur in other digital devices with the formatted card. You should only format the memory card in the digital equipment using the memory card.	
Unsupported and Erroneous Files	The file manager may show other files in addition to JPEG/MP3 files, but they cannot be run. Do not rename unsupported files with file extensions that are supported. It may cause errors.	

Switching to WISE LINK Mode (depending on the model)





1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the **ENTER** (↵) button to select **Input**.

Result: The options available in the **Input** group are displayed.

3 Press the ▲ or ▼ button again to select **WISELINK**. Press the **ENTER** (↵) button.

Result: The **WISELINK** menu is displayed.

➢ You can also select these options simply by pressing the **W.LINK** button. WISELINK mode is activated. If you press the button again, it switches back to TV mode.

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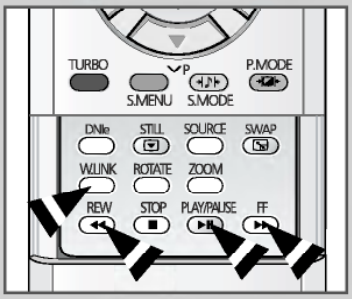
Selecting Image (JPEG) Files/Music (MP3) Files (depending on the model)

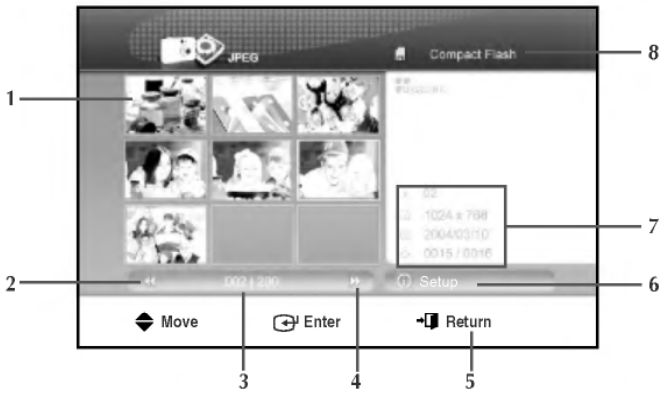
1	Press the **W.LINK** button.
2	Press the ▲ or ▼ button to select which memory card to run, then press the **ENTER** (↵) button.
3	Press the ◀ or ▶ button to select the file type to run, then press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select the file to run, then press the **ENTER** (↵) button.



- While making a selection, information about the selected file is displayed on the right side of the screen.
- When no card is inserted, "**Please Insert Cards.**" will be displayed. When a new card is inserted or the inserted card is loose, the memory card selecting screen will automatically open.
- When any card other than the memory card currently in use becomes loose, ( ) will be displayed at the top of the screen.
- A maximum of one thousand files can be displayed.
- JPEG/MP3 file names are displayed in Korean and English only.
- Images edited by JPEG editors (for example: Photoshop or Paintshop) may not appear normal.

Picture (JPEG) Playback (depending on the model)

➢ *JPEG file format is supported.*



1) **Press the (◄►▼▲) button to move to the desired file and select it. Press the (↵) button and a full page image will be displayed.**
2) **Press the (◄◄) button to move to the previous page.**
3) **The current page number out of the total pages is displayed.**
4) **Press the (►►) button to move to the next page.**
5) **Press the (↩) button to move to the previous menu.**
6) **Press the INFO(▭) button to move to the WISE LINK Setup Menu. (Refer to page 46.)**
7) **The title, resolution, creation date, and number (current file number / total file number) for the selected image file will be displayed.**
8) **The selected memory card type is displayed.**

   Press the (►II) button to start the slide show beginning with the selected image.

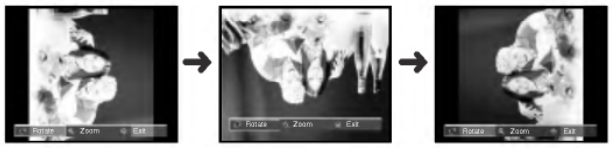
➢
- When a JPEG file is displayed full page, the right / left and/or upper / lower parts of the image may appear black or the image may not be located in the center in the following situations:
  1) When the picture is smaller than 640 x 480
  2) When the width : length proportion of the picture is not 4:3.
  3) When those same parts of the original picture are black
- When a JPEG file is displayed full page or enlarged, the four edges may not be displayed. This is because the picture tube display of the TV does not expose the four edges of any image as to reduce the viewer's inconvenience during a screen fluctuation caused by power supply or signal changes.
- The small pictures in the list of JPEG files may appear slightly different from the full-page pictures.
- If you press the (◄►▼▲) button before all the pictures are displayed, the icon (⧖) appears.
- When viewing still images or pausing a slide show, a screen saver will become active after a set period of time.

Rotating the Picture (JPEG) (depending on the model)

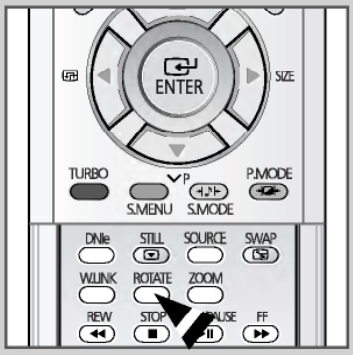
1 Press the **ENTER** (↵) button while viewing the full page image.

Result: The **HELP** menu is displayed in the lower part of the screen.

2 Press the ◄ or ► button to select **Rotate** then press the **ENTER** (↵) button.



90 degrees 180 degrees 270 degrees



➢ *You can also select these options simply by pressing the ROTATE button. Press the ROTATE button to rotate images 90, 180, 270, and 360 degrees clockwise.*

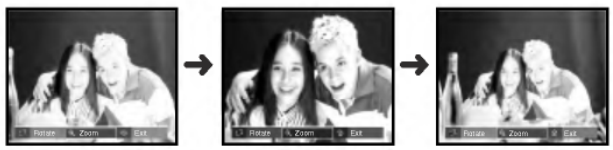
➢
- In order to display the full image on the screen, the picture size will automatically change depending on the rotational angles (90 and 270 degrees)
- When rotating the picture, the rotated image will be displayed in the JPEG file list.
- An enlarged image cannot be rotated.

Picture Zoom (JPEG) (depending on the model)

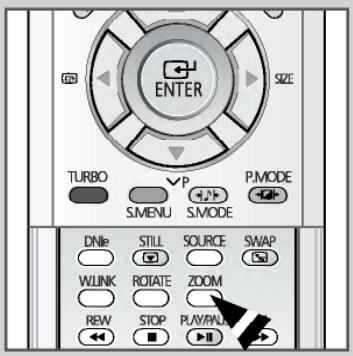
1 Press the **ENTER** (↵) button while viewing the full page image.

Result: The **HELP** menu is displayed in the lower part of the screen.

2 Press the ◄ or ► button to select **Zoom** then press the **ENTER** (↵) button.



(Enlarge 1) (Enlarge 2) (Normal)

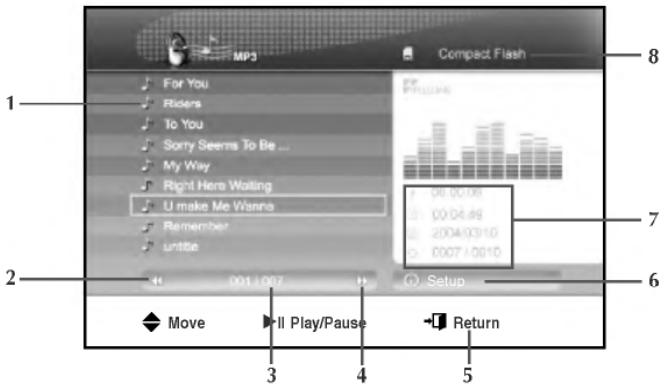


➢ *You can also select these options simply by pressing the ZOOM button. When you press the ZOOM button repeatedly Enlarge1 ( ), Enlarge2 ( ), and Normal ( ) will be selected in sequence.*

➢
- You can use the (◄►▼▲) button to move the enlarged picture.
- When you move the enlarged picture, the edges of the original picture may not be displayed.

Music File (MP3) Playback (depending on the model)

➢ *MP3 file format is supported.*



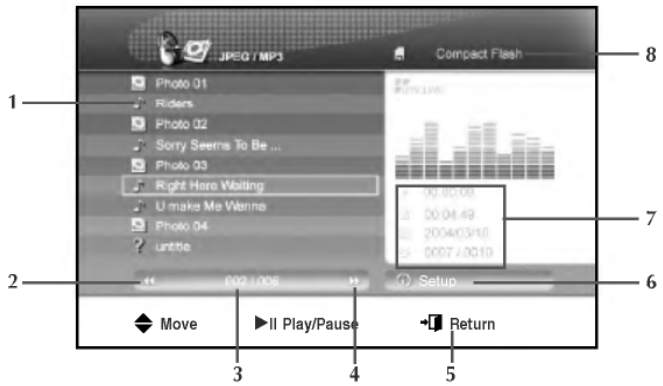
1) Press the ▲ or ▼ button to move to a desired file and it will automatically play.
2) Press the (◀◀) button to move to the previous page.
3) The active page is displayed.
4) Press the (▶▶) button to move to the next page.
5) Press the (↩) button to move to the previous menu.
6) Press the INFO ( ) button to move to the WISE LINK setup menu. (Refer to page 46)
7) The elapsed time, total playback time, creation date, and number (current file number / total file number) for the selected file will be displayed.
8) The selected memory card type is displayed.

   Press the (▶II) button to play or pause the file.

➢
- Play time and total running time of VBR MP3 files will not be displayed.
- The screen saver will become active after a set period of time whether the music is playing or paused.

Playback All JPEG/MP3 Files (depending on the model)

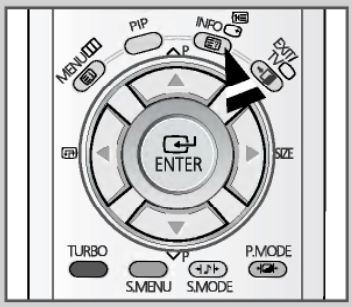
➢ *JPEG/MP3 files are displayed.*

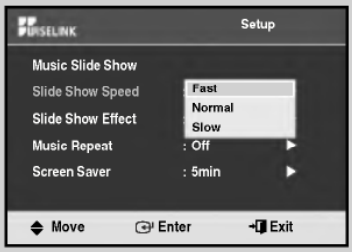


1) **Please see pages 41 and 44 on how to playback JPEG & MP3 files.**
2) **Press the (◀◀) button to move to the previous page.**
3) **The active page is displayed.**
4) **Press the (▶▶) button to move to the next page.**
5) **Press the (↩) button to move to the previous menu.**
6) **Press the INFO ( ) button to move to the WISE LINK Setup Menu. (See page 46.)**
7) **The information for the current file is displayed.**
8) **The selected memory card type is displayed.**

➢
- The file manager may show other files in addition to JPEG/MP3 files, but they cannot be run.
- You cannot select "**Music Repeat**" in the file list. When a piece of music is finished, it stops.

WISE LINK Menu Setup (depending on the model)





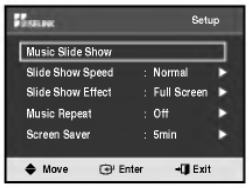
You can set various functions in WISE LINK mode.

1. Press the **INFO** (▭) button while in **WISE LINK** setup mode. **WISE LINK** setup mode is displayed.
2. Press the ▲ or ▼ button to select the desired sub-menu, then press the **ENTER** (↵) button.
3. Press the ▲ or ▼ button to select the desired item and then press the **ENTER** (↵) button.
4. Press the **EXIT** (→▯) button to exit the menu.

➢ Turning off the TV set or switching to another mode during setup will cancel your settings. The Wise Link settings will revert to the previously memorized settings.

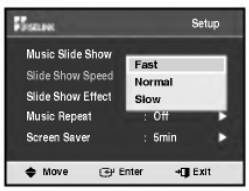
WISE LINK Menu Setup (depending on the model) (continued)

Music Slide Show



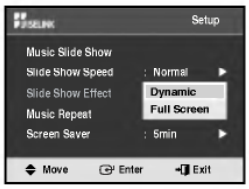
- Music plays while the pictures are displayed in sequence.
- "**Music Slide Show**" does not work in either Card Selection mode or File Type Selection mode.
- If there are no JPEG files or MP3 files in the folder, "**Music Slide Show**" will not run.
- During the "**Music Slide Show**", only the Play / Pause / Exit / Stop buttons are available.
- Only the files in the same folder can be played when you run a file from the JPEG/MP3 file folder.

Slide Show Speed



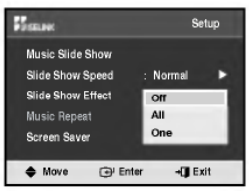
- You can set the Time per Picture when the slide show starts.
  - **Fast**: Pictures change every three seconds.
  - **Normal**: Pictures change every five seconds.
  - **Slow**: Pictures change every ten seconds.

Slide Show Effects



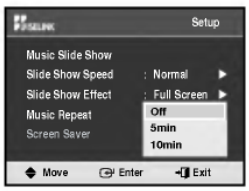
- During the slide show, you can select the "**Slide Show Effect**" to display using the remote control.
  - **Dynamic**: Pictures appear from various directions.
  - **Full Screen**: Stops the "**Slide Show Effect**".

Music Repeat



- You can set the music to repeat.
  - **Off**: MP3 files stop one by one after playing.
  - **All**: All the files within the folder play in sequence and repeat.
  - **One**: The file currently playing repeats.

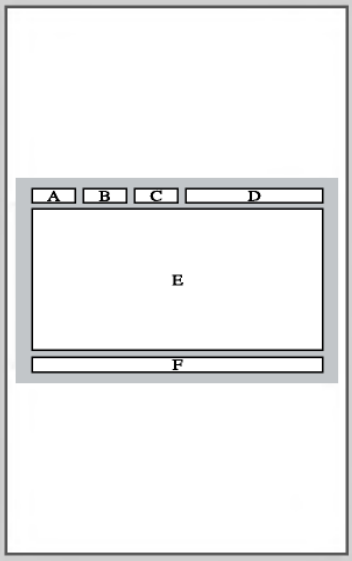
Screen Saver



- A screen saver is provided to prologue the life of the Screen.
  - **Off**: Stops the screen saver.
  - **5min**: The screen saver automatically turns on if no button is pressed within five minutes.
  - **10min**: The screen saver automatically turns on if no button is pressed within ten minutes.

➢
- When "**Music Repeat**" is set to "**Off**", the "**Music Slide Show**" repeats all the music.
- The (⏯) button will toggle between the following (during "**Music Slide Show**"): Picture Pause → Picture/Music Pause → Release Pause (Play)
- When "**Music Slide Show**" is on, Picture Pause and Picture/Music Pause will be released after five minutes in order to protect the CRT.
- VBR (Variable Bit Rate) MP3 files will not be played in order to ensure the stable operation of the slide show.

Teletext Feature



Most television channels provide written information services via teletext. Information provided includes:

- ***Television programme times***
- ***News bulletins and weather forecasts***
- ***Sports results***
- ***Travel information***

This information is divided into numbered pages (see diagram).

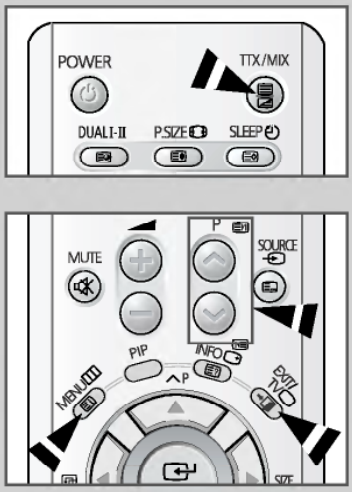
Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

➢ It can be diffrent from depending on TTX source.

➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- Entering the page number
- Selecting a title in a list
- Selecting a colored heading (FASTEXT system)

Displaying the Teletext Information



You can display Teletext information at any time on your television.

☛ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed

1	Select the channel providing the Teletext service using the ◯ or ◯ button.
2	Press the **TTX/MIX** (▤/◪) button to activate the teletext mode. Result: The contents page is displayed. It can be redisplayed at any time by pressing the ▤ (index) button.
3	If you wish to display the actual broadcast at the same time as the teletext page, press the **TTX/MIX** (▤/◪) button again.
4	Press the **TV** (▢) button to exit from the teletext display.

Selecting a Page by Number

You can enter the page number directly by pressing the numeric buttons on the remote control.

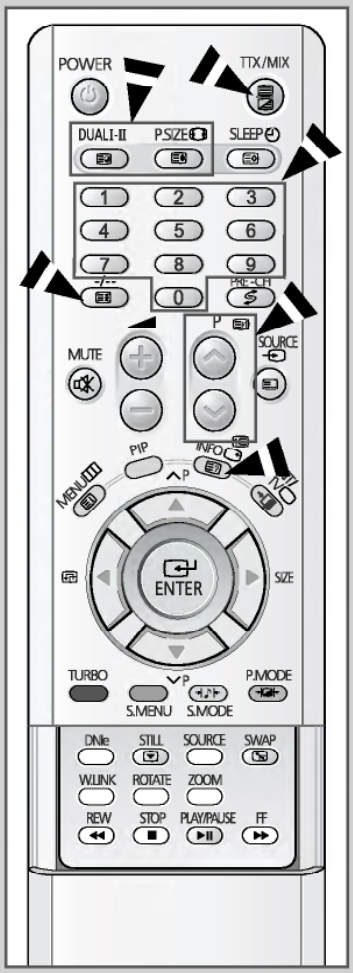
1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

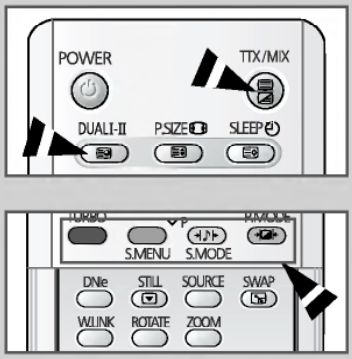
2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold). Press the (hold) again to resume.

Using the various display options:

To display...	Press the...
◆ Both teletext information and the normal broadcast	**TTX/MIX** (/) twice
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page, by entering its 4-digit number	(sub-page)
◆ The next page	(page up)
◆ The previous page	(page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	(size) • Once • Twice
◆ Normal screen	• Three times



Using FLOF to Select a Page

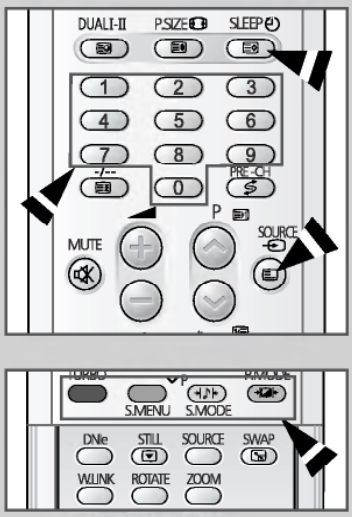


The various topics included in the teletext pages are color-coded, and can be selected by pressing the colored buttons on the remote control.

1. Display the teletext contents page by pressing the **TTX/MIX** (▤/◪) button.
2. Press the colored button corresponding to the topic that you wish to select;the available topics are given on the status line.

   Result: The page is displayed with other colored information that can be selected in the same way.
3. To display the previous or next page, press the corresponding colored button.
4. To display the subpage, see the following steps.
   - Press the ▤ (sub-page) button.
     Result: The available subpages appear.
   - Select the required sub-page. Sub-pages can be scrolled by using the **TURBO** (Red) or **S.MENU** (Green) button.

Storing Teletext Pages



You can store up to four teletext pages to display them later at leisure.

1. Select the LIST mode using the ▤ button.

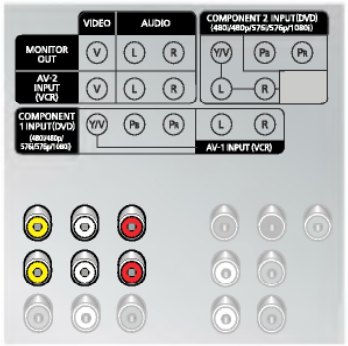
   Result: Four 3-digit numbers are displayed in different colors.

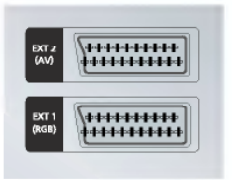
   ➢ The ▤ button is used to switch between the LIST and FLOF (or FASTEXT) modes.
2. Press the colored button corresponding to the page that will be replaced.
3. Enter the new page number using the numeric buttons.
4. Repeat steps **2** and **3** for each page to be stored, using a different colored button each time.
5. Press the ▤ (store) button until the corresponding blocks blink.

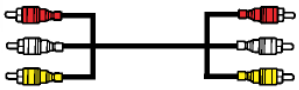
Connecting to the External Input/Outputs

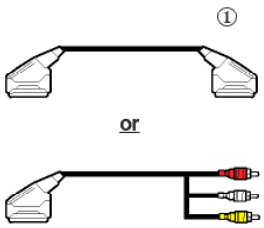
➢ "**EXT 1 (RGB)**" is used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV (depending on the model)









◆ "**MONITOR OUT** (or **EXT 1 (RGB)**)" is used for the audio/video output of current television programme.

① This end can be fitted with:
- ◆ A SCART connector
- ◆ Three RCA connectors (Video + Audio-L and R)

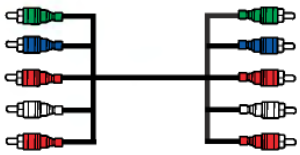
② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to "**AV 2 INPUT (VCR)** (or **EXT 2 (AV)**)" and the target VCR to "**MONITOR OUT** (or **EXT 1 (RGB)**)" so that you can redirect the signal from "**AV 2 INPUT (VCR)** (or **EXT 2 (AV)**)" to "**MONITOR OUT** (or **EXT 1 (RGB)**)".

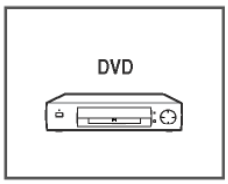
③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.

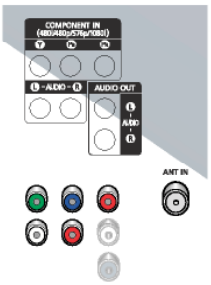
④ When you wish to record a programme, connect the receiver to "**AV 2 INPUT (VCR)** (or **EXT 2 (AV)**)" and the VCR to "**MONITOR OUT** (or **EXT 1 (RGB)**)" so that you can redirect the signal from "**AV 2 INPUT (VCR)** (or **EXT 2 (AV)**)" to "**MONITOR OUT** (or **EXT 1 (RGB)**)".

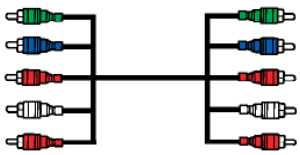
Connecting to the DVD Player (depending on the model)

Rear of the TV







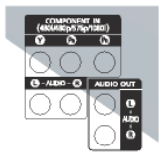


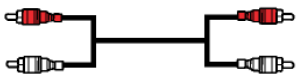
- Connect the RCA Cable to "**L**" and "**R**" on the rear of your television and the other end to "Audio Out" connector of the DVD player. Connect the RCA Cable to "**Y**", "**PB**", and "**PR**" on the rear of your television and the other end to the "Component Video Out (Y, PB, PR)" connectors of the DVD player.
- Only black signal is output from a monitor in **Component1** or **Component2** mode.

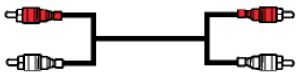
Connecting to the Audio Output

➢ The **"AUDIO OUT"** (RCA) connectors are used for equipment, such as an audio system (to take full advantage of the Surround sound effect).

Rear of the TV
(depending on the model)







Audio system

Connecting to the Active Sub Woofer Speaker(depending on the model)

The **SUB-WOOFER SPEAKER OUT** connector is used for active sub woofer speaker with a woofer in.

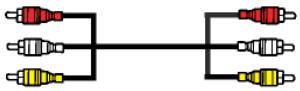
Rear of the TV
(depending on the model)

Active Sub Woofer Speaker

Connecting to the RCA Input

➢ The RCA (**VIDEO** and **AUDIO-L+R**) connectors are used for equipment, such as camcorders, video disc players, and some video game devices.

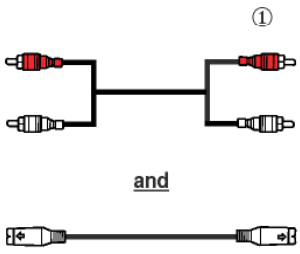
Side of the TV

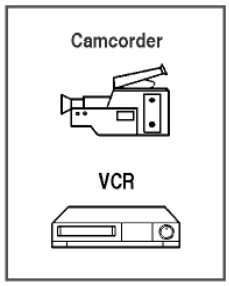


Connecting to the S-Video Input

➢ The **S-VIDEO INPUT** and RCA (**AUDIO-L+R**) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Side of the TV





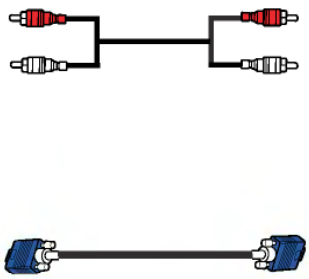
① To play pictures and sound, both the S-VIDEO and RCA connectors must be used.

☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the PC Input (depending on the model)

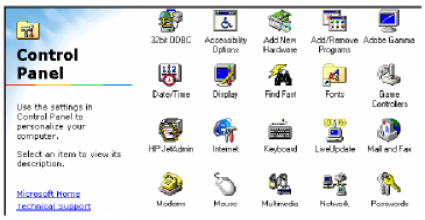
➢ The **PC VIDEO INPUT**/RCA(**AUDIO-L+R**) connectors are used for interfacing with your PC.

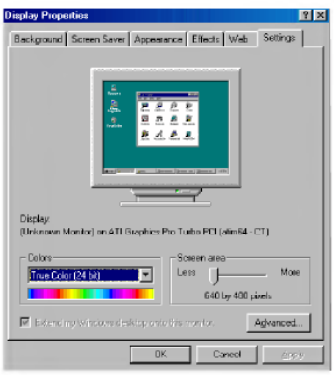
Side of the TV



➢ **How to Set up Your PC Software (Windows only)**

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)





First, click on **Settings** on the Windows start menu.

While **Settings** is highlighted, move the cursor so that **Control Panel** is highlighted.

When the control panel screen appears, click on **Display** and a display dialog-box will appear.

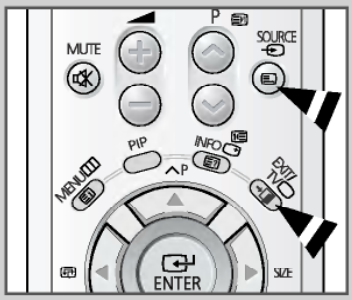
Navigate to the **Settings** tab on the display dialog-box.

The correct setting of size (resolution) is **640 x 480 pixels**.

If a vertical-frequency option exists on your display settings dialog box, the correct value is **60** or **60 Hz**. Otherwise, just click **OK** and exit the dialog box.

➢ Only black signal is output from a monitor in PC mode.

Viewing Pictures From External Sources (depending on the model)



Once you have connected up your various audio and video systems, you can view different sources by selecting the appropriate input.

1 Check that all the necessary connections have been made.

2 Switch your television on, then press the **SOURCE** (⏎) button repeatedly.

Result: The input sources are displayed in the following order:

TV → AV1 → AV2 → AV3 → S-Video → Component1 → Component2 → (PC) → TV

◆ PC : When the PC is connected, it is selected. (depending on the model)

➢ ◆ Depending on the source selected, the pictures may appear automatically.

➢ To watch television programmes again, press the **TV** (▭) button and select the number of the channel required.

Automatic Degaussing to Remove Color Patches

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and color patches appear on the screen, you must:

- **Switch the television off by pressing the "⏻" (On/Off) button on the front panel**
- **Unplug the television from the wall socket**
- **Leave the television power-off for about 30 minutes so that the automatic degauss function can be activated, then press the "POWER(⏻)" button on the remote control.**

☛ **If your television will be left unattended, press the "⏻" (On/Off) button to turn your television off.**

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the "⏻" button (On/Off) and the **POWER** (⏻) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the **MUTE** (🔇) button on the remote control has been pressed.
No picture or black and white picture	◆ Adjust the color settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television, then move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location, and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
Image or Music Files do not play back.	◆ Please check the original files. ◆ There may be errors in the original files.
The image appears in mosaic at first.	◆ It is typical for a Progressive JPEG. ◆ It will automatically become normal after a short period of time.
Each picture or slide has a different running time.	◆ The processing time may be different depending on the memory card type or the picture size.
The memory card is not recognized.	◆ Check if it is supported in WISE LINK mode. ◆ Check if the card is inserted all the way. ◆ The reading time may differ depending on the card capacity and type. Please give it a moment. ◆ Check if the memory card is normal. A memory card which has been formatted on a computer may not work in AV devices.
The volume changes while music is played.	◆ Check the original file. The manufacturers may randomly set the volume when they create MP3 files.
There is a blank screen when switching to WISE LINK.	◆ Check if the inserted memory card is normal.

Memo

Memo

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

SAMSUNG ELECTRONICS

AA68-03304A-01